# VEGETATION DESCRIPTIONS FOR CONGAREE SWAMP NATIONAL MONUMENT

### Fagus grandifolia - Quercus nigra Forest

COMMON NAME American Beech - Water Oak Forest

**SYNONYM** 

PHYSIOGNOMIC CLASS Forest (I.)

PHYSIOGNOMIC SUBCLASS Deciduous forest (I.B.)

PHYSIOGNOMIC GROUP Cold-deciduous forest (I.B.2.)

PHYSIOGNOMIC SUBGROUP Natural/Semi-natural (I.B.2.N.)

FORMATION Lowland or submontane cold-deciduous forest (I.B.2.N.a.)

ALLIANCE Fagus grandifolia - Quercus alba Forest Alliance

CLASSIFICATION CONFIDENCE LEVEL 1

USFWS WETLAND SYSTEM Upland

### **RANGE**

Globally

Fagus grandifolia - Quercus nigra Forest is known currently from the Coastal Plain of North Carolina, South Carolina, and possibly Virginia.

Congaree Swamp National Monument

This forest type occurs in the uplands of the northwestern portion of the park.

### **ENVIRONMENTAL DESCRIPTION**

Globally

These forests occur on mesic slopes and upland flats.

Congaree Swamp National Monument

Fagus grandifolia - Quercus nigra Forest occurs on middle to lower convex slopes.

### MOST ABUNDANT SPECIES

Globally

<u>Stratum</u> <u>Species</u>

Tree canopy Fagus grandifolia, Quercus nigra

Tree subcanopy Ostrya virginiana, Carpinus caroliniana, Cornus florida

Congaree Swamp National Monument
Stratum Species

Tree canopy Fagus grandifolia, Quercus nigra, Liquidambar styraciflua, Quercus michauxii,

Quercus alba

Tree subcanopy *Ilex opaca* 

Short shrub Rhododendron canescens

## USGS-NPS Vegetation Mapping Program Congaree Swamp National Monument

#### DIAGNOSTIC SPECIES

Globally

Quercus nigra, Fagus grandifolia, Symplocos tinctoria, Callicarpa americana

Congaree Swamp National Monument

Fagus grandifolia, Quercus nigra, Ilex opaca, Rhododendron canescens, Chasmanthium laxum var. sessiliflorum

### VEGETATION DESCRIPTION

Globally

Mesic mixed hardwood forests dominated by Fagus grandifolia and Quercus nigra with limited Quercus alba. Vaccinium sp. and Arundinaria gigantea are important in the shrub layer. One example has a canopy dominated by Fagus grandifolia, Liriodendron tulipifera, and Quercus nigra. The understory is

diverse and contains Ostrya virginiana, Carpinus caroliniana, and Cornus florida. Symplocos tinctoria and Callicarpa americana are common shrubs.

### Congaree Swamp National Monument

These closed canopy forests are dominated by Fagus grandifolia, Liquidambar styraciflua, Quercus alba, and Quercus nigra with a well-developed subcanopy of Ilex opaca. Other canopy species that may be present include Nyssa sylvatica, Quercus laurifolia, Quercus michauxii, Quercus

pagoda, Ulmus alata, Acer rubrum, and Liriodendron tulipifera. Pinus taeda may also be present particularly in occurrences with a history of disturbance. Other species in the understory include Carpinus caroliniana and Cornus florida. The well-developed shrub layer contains a variety of species including Euonymus americana, Rhododendron canescens, Vaccinium elliottii, Vaccinium pallidum, Gaylussacia dumosa, Gaylussacia frondosa, Symplocos tinctoria, Arundinaria gigantea, Asimina triloba, Callicarpa americana, and others. The herbaceous

layer ranges from sparse to moderately well-developed, and among the species that occur are Osmunda cinnamomea, Polystichum acrostichoides, Mitchella repens, Chasmanthium laxum var. sessiliflorum, Malaxis unifolia, Arisaema triphyllum, Athyrium filix-femina ssp. asplenioides, Panicum boscii, Goodyera pubescens,

Carex debilis, Carex abscondita, and Tipularia discolor. The vine/liana stratum is sparse and can contain Parthenocissus quinquefolia, Smilax bona-nox, Toxicodendron radicans, Bignonia capreolata, and Smilax hispida, among others.

### OTHER NOTEWORTHY SPECIES

The exotic species *Lonicera japonica* is present within the park in these forests.

CONSERVATION RANK G3

RANK JUSTIFICATION

DATABASE CODE CEGL007211

**COMMENTS** 

REFERENCES